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38	US 5642996 A	U 19970701	9	Endosseous	
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42	US 5769852 A	U 19980623	9	Implant	
43	US 5772437 A	U 19980630	9	Security	
44	US 5816813 A	U 19981006	9	Implant	
45	US 5816812 A	U 19981006	9	Dental	
46	US 5842865 A	U 19981201	9	Self-tightening	
47	US 5885079 A	U 19990323	9	Select	
48	US 5897319 A	U 19990427	9	Self-tightening	
49	US 5938444 A	U 19990817	9	Fixture	
50	US 5951287 A	U 19990914	9	Dental	
51	US 5984681 A	U 19991116	9	Dental	

tissue to grow into and through these openings and to permit blood tissue to escape.

TITLE - TI (1):

Screw-type dental implant anchor

Brief Summary Text - BSTX (1):

This invention relates to a screw-type dental implant anchoring means comprising an externally-threaded, preferably self-tightening body portion. The implant has internal means for engaging means for inserting the implant into an opening formed in bone tissue to receive the implant. This internal means is, preferably, a wrench-engaging surface. In preferred embodiments, the body portion is joined to a top portion having an unthreaded exterior wall. Preferably, the internal means for implant insertion is inside that top portion, but can alternatively be inside the body portion. The top or head portion is open, preferably chamfered at its upper end, and in registration with an internal, threaded shaft. This shaft is inside the body portion of the anchor, and extends from a plane just below the head portion downwardly a substantial distance inside the body portion of the anchor.

Brief Summary Text - BSTX (5):

The anchoring means is preferably made of commercially-pure titanium, and preferably has an outside thread diameter of not more than about 4 millimeters. The anchoring means preferably has a length in the range of about 5 to about 20 millimeters in preferred embodiments.

Drawing Description Text - DRTX (2):

FIG. 1 is a perspective view of one embodiment of the dental implant anchor of this invention;

Drawing Description Text - DRTX (5):

FIG. 4 is a perspective view of another dental implant anchor embodiment that includes internal means for engaging means for inserting the implant into bone tissue; and

Drawing Description Text - DRTX (6):

FIG. 5 shows an elevational view, in cross-section, of another dental implant anchor embodiment.

Detailed Description Text - DETX (5):

Internally-threaded passage 8 inside implant 1 can receive a variety of cementable and threaded adaptors already in use, such as threaded copings, threaded screws, and cementable dental prostheses. See, for example, the

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39	US 5727943 A	U 19980317	1	Self-
40	US RE35784 E	U 19980505	1	Submerge
41	US 5752830 A	U 19980519	1	Removal
42	US 5769852 A	U 19980623	1	Implant
43	US 5772437 A	U 19980630	1	Securing
44	US 5816813 A	U 19981006	1	Implant
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connecting an artificial tooth or dental bridge to the jaws which comprises an implant portion or screw for connection to the bone, the screw having a head and a downwardly tapered shaft, an abutment portion for connection to the prosthesis, and connecting means for connecting the implant and the abutment. Preferably, the components of the invention are machined from titanium alloy.

Brief Summary Text - BSTX (5):

The specific problem of integrating teeth within the oral cavity by means other than superficial attachment has been addressed previously. One result is the proposal of Branemark as exemplified in Int. J. Oral Sur. 1981:10:387-416. In this proposal a generally cylindrical device is described which includes a number of connectable parts the majority of which are machined from substantially pure titanium.

Brief Summary Text - BSTX (9):

To accomplish this objective, the present invention provides a device for connecting a prosthesis to bone which comprises an implant portion for integration with the bone, the implant being constituted by a screw having a shaft and a head, the shaft being tapered downwardly from the head; an abutment portion for integration with the prosthesis; and connecting means for coupling the implant portion with the abutment portion. Preferably, the implant and abutment of the present invention are machined from titanium alloy for example, an alloy including 6% aluminium and 4% vanadium.

Detailed Description Text - DETX (2):

Referring now to FIG. 1, there is illustrated a device 10 comprising an implant 20, an abutment 40, both of which are machined from a titanium alloy and a connecting screw 60, which is machined from stainless steel.

Detailed Description Text - DETX (3):

Implant 20 has a tapered body 22 bearing exterior semi-tapering screw threads 24 and terminates in a head 26. The upper surface 28 of head 26 defines a generally elliptical recess 30 located centrally thereon. Implant 20 defines a longitudinal, centrally located bore 32 extending from recess 30 into but not through the tapered body 22. Bore 32 is screw-threaded to receive connecting screw 60. Preferably, the pitch of the threads 24 is about 16 turns per inch.

Detailed Description Text - DETX (7):

The preceding description of the operative components and procedure by which the abutment and implant are connected has, for the sake of clarity, disregarded mention of any specific application of the device. In the following description, the device is described with particular reference to its utility as a means of coupling a dental prosthesis, i.e. a single artificial tooth or a dental bridge to the jaws.